

August 03, 2010

111 Herrick Street, Merrimack, NH 03054 TEL: (603) 424-2022 • FAX: (603) 429-8496 www.amrolabs.com

ANALYTICAL TEST RESULTS

Raymond Siegener GEI Consultants, Inc. 400 Unicorn Park Drive Woburn, MA 01801

TEL: (781) 721-4098 FAX: (781) 721-4073

Subject: 09382-2 Canton Airport

Workorder No.: 1007069

Dear Raymond Siegener:

AMRO Environmental Laboratories Corp. received 1 sample on 7/19/2010 for the analyses presented in the

AMRO is accredited in accordance with NELAC and certifies that these test results meet all the requirements of NELAC, where applicable, unless otherwise noted in the case narrative.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of 60 days from sample receipt date (90 days for samples from New York). After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 12 pages. This letter is an integral part of your data report. All results in this project relate only to the sample(s) as received by the laboratory and documented in the Chain-of-Custody. This report shall not be reproduced except in full, without the written approval of the laboratory. If you have any questions regarding this project in the future, please refer to the Workorder Number above.

Sincerely,

Nancy Stewart Vice President

State Certifications: NH (NELAC): 1001, MA: M-NH012, CT: PH-0758, NY: 11278 (NELAC), ME: NH012 and

Hard copy of the State Certification is available upon request.

Date: 29-Jul-10

CLIENT:

GEI Consultants, Inc.

Project:

09382-2 Canton Airport

Lab Order:

1007069

Date Received: 7/19/2010

Work Order Sample Summary

Lab Sample ID

Client Sample ID

Collection Date

Collection Time

1007069-01A

093822-PR27(9-12)

7/8/2010

1:20 PM

Lab Order:	100/001		٠				
Client:	GEI Consultants, Inc.				DATES	DATES REPORT	
Project:	09382-2 Canton Airport	Ţ					٠.
Sample 1D C	Client Sample ID	Collection Date	Matrix	Analytical Test Name		Analysis Date	
				Preparatory Test Name	Prep Date	Batch ID	TCLP Date
1007069-01A	093822-PR27(9-12)	7/8/2010 1:20:00 PM	Soil	EPA 8082 PCBS IN SOIL/SOLIDS		7/28/2010	
				EPA 3540C SOPREP SOXHLET: PCBS	7/27/2010	20468	
				Percent Moisture		7/20/2010	
		3				R45044	

Mirta Ghiraldi

From:

Haley, Heather [HHaley@geiconsultants.com]

Sent:

Monday, July 19, 2010 3:28 PM

To:

Mirta Ghiraldi

Cc:

Oosting, Saskia

Subject: Canton Samples on Hold to Run

Hi Mirta.

I've been reviewing the recent data we have gotten back and it looks like we won't need to run many additional samples that are currently on hold. However, we would like to run sample 093822-PR-27(9-12) collected on 7/8/10 for PCBs with manual soxhlet extraction. Let me know if you have any

Thanks! Heather

1 7 3 32

Heather B. Haley, P.G. Project Geologist GEI Consultants, Inc. 400 Unicorn Park Drive Woburn, MA 01801

phone (781) 721-4063 cell (781) 424-9906 fax (781) 721-4073

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1007069

6/22/2010

SAMPLE RECEIPT CHECKLIST

111 Herrick Street Merrimack, NH 03054 (603) 424-2022

Client: GEF	AMRO I	r).		(003) 424-2022
Project Name: Canton Hisport	Date Rec			×1029 19//©
Ship via: (circle one) Fed Ex., UPS AMRO Courier,	Date Due			The state of the s
Hand Del., Other Courier, Other:	Date Du	.	- [16/10 -
	· · · · · · · · · · · · · · · · · · ·	 	· · · · · · · · · · · · · · · · · · ·	
Items to be Checked Upon Receipt	V	1 37		
Army Samples received in individual plastic bags?	Yes	No.	NA	Comments
		<u> </u>		
2. Custody Scals present?		ļ		
3. Custody Seals Intact?			<u> </u>	
4. Air Bill included in folder if received?				
5. Is COC included with samples?				
6. Is COC signed and dated by client?				
7. Laboratory receipt temperature. TEMP = 6				
Samples rec. with ice ice packs neither				
8. Were samples received the same day they were sampled?				
Is client temperature = or <6°C?				
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:			 	
9. Is the COC filled out correctly and completely?				
10. Does the info on the COC match the samples?				obstantial and a state of the s
11. Were samples rec, within holding time?	 			
12. Were all samples properly labeled?	1			
13. Were all samples properly reserved?	<u> </u>	<u> </u>		
			~~	
14. Were proper sample containers used?	<u> </u>			
15. Were all samples received intact? (none broken or leaking)		Alexander and a second		
16. Were VOA vials rec. with no air bubbles?				··· · · · · · · · · · · · · · · · · ·
17. Were the sample volumes sufficient for requested analysis?				<u> </u>
18. Were all samples received?				
19. VPH and VOA Soils only:			✓	
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)		.*		
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCor	e, B=Bulk			
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?		-		
If NO then client must be faxed.				· · · · · · · · · · · · · · · · · · ·
Were vials provided by AMRO?				
If NO then weights MUST be obtained	from clies	 n t		
Was dry weight aliquot provided?	T			
If NO then fax client and inform the V	OA lab As	SAP.		
20. Subcontracted Samples:	Ĭ	 	- 7 T	
What samples sent:	 			
Where sent:	 			
Date:				
Analysis:	 			
TAT:				
21. Information entered into:	 			
Internal Tracking Log?	7			
Dry Weight Log?	4			
Client Log?				
Composite Log!	<u> </u>		<u> </u>	
Filtration Log?				
Received By: Ku Date: 7/9//O Logged in By: 7/	W		Date: 7 /	
Labeled By: KW Date: 7/4//o Checked By:	MG		Date: 7	- 9-10

Date: 30-Jul-10

CLIENT:

GEI Consultants, Inc.

Project:

09382-2 Canton Airport

Lab Order:

1007069

CASE NARRATIVE

PCBs:

1. No QC deviations were observed.

		Ma	nssDEP Analytic	al Protocol Certif	ication Form	
Labo	oratory Na	ame: AMRO Enviro	onmental Lab. Corp).	Project #: 0938	2-2
Proj	ect Locati	ion: Cant	on Airpor	1	RTN:	
This	Form pro	ovides certificatio	ons for the followi	ng data set: list Lal /	poratory Sample ID Nเ	ımber(s):
Matri	ces: G	roundwater/Surfac	e Water Soil/Se	diment Drinking	Water Air Other:	
CAM	l Protoc	ol (check all that a	pply below):			
8260 CAM		7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 CAM	SVOC II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 CAM	Metals III A	6020 Metals CAM III D	8082 PCB V	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	
,	Affirmativ	ve Responses to (Questions A throu	igh F are required i	for "Presumptive Certa	ainty" status
А	Custody,	samples received properly preserve Vanalyzed within me	ed (including temp	istent with those des perature) in the fie	cribed on the Chain-of- ld or laboratory, and	Tes No
В	Were the CAM pro	e analytical method(tocol(s) followed?	s) and all associate	ed QC requirements s	pecified in the selected	(Ye) No
С	Were all CAM pro	required corrective tocol(s) implemented	actions and analytic d for all identified per	cal response actions s formance standard no	specified in the selected n-conformances?	CO3 No
Ð	Does the "Quality Analytica	Assurance and Qu	omply with all the re pality Control Guide	eporting requirements elines for the Acquis	specified in CAM VII A, ition and Reporting of	(Feg) No
E	a. VPH, modificat	ion(s)? (Refer to the	ethods only: Was individual method(s)	each method condu for a list of significant te analyte list reported	cted without significant modifications). for each method?	MA Yes No
F	Were all and evalu	applicable CAM pro uated in a laboratory	tocol QC and perfor narrative (including a	rmance standard non- all "No" responses to C	conformances identified Questions A through E)?	(Yes) No
Res			The same of the sa	the state of the s	mptive Certainty" stat	us
G	Were the protocol(s	reporting limits at or s)?	below all CAM repo	rting limits specified in	the selected CAM	Yes No'
<u>Da</u> rej	ita User No presentativ	te: Data that achieve reness requirements	"Presumptive Certai described in 310 CMR	nty" status may not ne ? 40. 1056 (2)(k) and WS	cessarily meet the data usa C-07-350.	ability and
H	Were all	QC performance sta	ndards specified in th	ne CAM protocol(s) ac	hieved?	(res No1
ı	Were res	ults reported for the	complete analyte list	specified in the select	ed CAM protocol(s)?	(Yes) No
¹ All n	egative re	esponses must be a	ddressed in an attac	ched laboratory narra	tive.	
respon	isible for a	ed, attest under the btaining the informa ate and complete.	pains and penalties tion, the material con	s of perjury that, bas ntained in this analytica	ed upon my personal inc al report is, to the best of	quiry of those my knowledge
Sign	ature:	Ven, Sq	1-6	Positio	n: Vice President	
Print	ed Name	: Nancy Stewart		8 Date:	8-10-10	

DATA COMMENT PAGE

Organic Data Qualifiers

- ND Indicates compound was analyzed for, but not detected at or above the reporting limit.
- Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than the method detection limit.
- H Method prescribed holding time exceeded.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- R RPD outside accepted recovery limits
- RL Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
- S Spike Recovery outside accepted recovery limits.
- # See Case Narrative

Micro Data Qualifiers

TNTC Too numerous to count

Inorganic Data Qualifiers

- ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.
- Indicates a value greater than or equal to the method detection limit, but less than the quantitation limit.
- H Indicates analytical holding time exceedance.
- B Indicates that the analyte is found in the associated blank, as well as in the sample.
- MSA Indicates value determined by the Method of Standard Addition
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- R RPD outside accepted recovery limits
- RL Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
- S Spike Recovery outside accepted recovery limits.
- W Post-digestion spike for Furnace AA analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * Duplicate analysis not within control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
- # See Case Narrative

Report Comments:

- 1. Soil, sediment and sludge sample results are reported on a "dry weight" basis.
- 2. Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

Date: 29-Jul-10

CLIENT:

GEI Consultants, Inc.

Lab Order:

1007069

1007005

Project: Lab ID: 09382-2 Canton Airport

1007069-01A

Client Sample ID: 093822-PR27(9-12)
Collection Date: 7/8/2010 1:20:00 PM

Matrix: SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
PCBS BY EPA8082	S	W8082	<u>व्यवक्र के श्री में में में के हैं कि हैं कि हैं कि हैं कि हैं कि तह के लिए हैं कि हैं कि हैं कि हैं कि है कि</u>		Analyst: KA
Aroclor 1016	ND	- 51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1221	ND	51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1232	ND	51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1242	ND	51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1248	ND	51	μg/Kg-dry	1 ·	7/28/2010 5:50:00 PM
Aroclor 1254	ND	51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1260	ND	51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1262	ND	51	μg/Kg-dry	1	7/28/2010 5:50:00 PM
Aroclor 1268	ND	51	μg/Kg-dry	1.	7/28/2010 5:50:00 PM
Surr: Tetrachloro-m-xylene	99.7	30-150	%REC	1	7/28/2010 5:50:00 PM
Surr: Decachlorobiphenyl	113	30-150	%REC	1	7/28/2010 5:50:00 PM
PERCENT MOISTURE	D	2216			Analyst: MG
Percent Moisture	3.9	0	wt%	1	7/20/2010

09382-2 Canton Airport

GEI Consultants, Inc.

1007069

Work Order: CLIENT:

Project:

Date: 30-Jul-10

QC SUMMARY REPORT

Method Blank

Sample (D: MB-20468	Batch ID: 20468	Test Cod	Test Code: SW8082	Units: µg/Kg	Kg		Analysis D	ate 7/28/20	Analysis Date 7/28/2010 11:41:00 AM	Prep Date: 7/27/2010	/27/2010	1
Client ID:		Run ID:	GC-ELVIS_100728A	_100728A			SeqNo:	749463				
	QC Sample		0	QC Spike Original Sample	al Sample				Oríginal Sample			
Analyte	Result	귒	Units	Amount	Result %	%REC	LowLimit	HighLimit	or MS Result	%RPD R	RPDLimit C	Quí
Arocior 1016	Q	20	µg/Kg		٠						Complete of the common control of the c	i
Aroclor 1221	g	50	р9/Ка									
Aroclor 1232	9	20	µg/Kg		٠.							
Aroclor 1242	2	50	µg/Kg							·		
Aroclor 1248	QV	50	µg/Kg									
Aroclor 1254	2	20	µg/Kg		-							
Aroclor 1260	Q	50	µg/Kg			÷						
Aroclor 1262	QN	20	µg/Kg		-				÷			
Aroclor 1268	QN	20	µg/Kg		-							
Surr: Tetrachloro-m-xylene	16.44	0	µg/Kg	16	0	103	30	150	0			
Surr: Decachlorobiphenyl	18.01	0	µg/Kg	16 _.	0	113	30	150	0			
									٠			

B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate. I - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

CLIENT:	GEI Consultants. Inc.	THE THE PARTY OF T
Work Order:	1007069	OC SUMMARY REPORT
Project:	09382-2 Canton Airport	Laboratory Control Spike

Sample ID: LCS-20468	Batch ID: 20468		Test Code	Test Code: SW8082	Units: µg/Kg	5		Analysis E	Jate 7/28/20	Analysis Date 7/28/2010 12:34:00 PM	Prep Date	Prep Date: 7/27/2010	
Client ID:			Run ID:	GC-ELVIS	GC-ELVIS_100728A			SeqNo:	749465	-		-	
Analyte	QC Sample Result		占	Units	QC Spike Original Sample Amount Result	al Sample Result	Sample Result %REC	LowLimit	(HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Que
Arodor 1016	7.778	٠	50	µg/Kg	1000	0	87.8	70.9	125	. 0			
Aroclor 1260	949		20	µg/Кд	1000	0	94.9	60.1	126				
Surr: Tetrachloro-m-xylene	16.72		0	µg/Kg	16	0	105	30	150				
Surr; Decachlorobiphenyl	18,43	÷	0	µg/Kg	16	0	£.	30	150	0			
Sample ID: LCSD-20468	Batch ID: 20468		Test Code	SW8082	Units: µg/Kg	Đ,		Analysis D	ate 7/28/20	Analysis Date 7/28/2010 1:01:00 PM	Prep Date	Prep Date: 7/27/2010	
Client ID:			Run ID:	GC-ELVIS	GC-ELVIS_100728A			SeqNo:	749466				
Analyte	QC Sample Result		R) Units	QC Spike Original Sample Amount Result		%REC	LowLimit	Hight imit	Original Sample	Ca 8	:: si	Č
Aroclar 1016	912.9		50	ug/Kg	1000		913	70.07	404	r 750	3		ž
Arodor 1260	996.3		20	ug/Kg	1000	0	9.66	60.1	126	949	55.00 50.00 50.00	20	
Surr: Tetrachloro-m-xylene	19,65		0	µg/Kg	. 16	0	123	30	150	0	S C	9 6	
Surr: Decachlorobiphenyl	21.24			µg/Kg	16	0	133	30	150	0	0	0	
	•		•			irdi:							

NA - Not applicable where J values or ND results occur B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits R - RPD autside accepted recovery limits RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate. J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers: